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## Increasing the Quality and Efficiency of Teaching Geometry in the Credit - Module System

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### Abstract

In the article credit module in the system drawing geometry subject of training quality and efficiency increase on information listed.

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**Key words:** credit, graphics, drawing geometry, modulus, illustration art.

In the community graphics education environment inform and visualization as a result students creative activity development separately confession reported. In particular, China, South Korea, Japan, the United States and Russia such as of states leading higher education in institutions students computer graphics knowledge development, graphics in applications design qualification increasing, graphics application opportunities use through competitive cadres to prepare research instead being increased .

At graphics education field experience according to the computer graphics such as “animation and graphics”, “construction of 3D modeling” and “design of graphics” innovative approaches apply education recipient’s creative motivation in increasing important role plays. To students drawing geometry subject in their mastery graphics application opportunities use science, education and functional remove integration instead in increasing, students to know abilities development system improvement should demand is doing.

That's the point in view drawing geometry in teaching three dimensional modeling tool use methodology functional output, graphics of education quality and efficiency new stage take exit important importance profession reaches \_

Today higher education system in front of main basic task qualifying expert preparation \_ Such expert preparation for him , of course relatively being put requirements system identify get need \_ This to the question answer looking for the following four direction requirements to the system we came :

1. Own field on necessary knowledge , ability and skills has to be;

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2. There is knowledge constant as independent increase go, that is, independently to education ready to be;
3. Through innovation add for independent research and creation to do ability has to be;
4. Own time planning, management and own activities formed reach ability has to be

Of our President higher to the meeting in the application current from pedagogical 6 areas of education on reading term 3 years so mark meaning caught. These are the directions in "Fine art and engineering graphics » education direction is also available.

High education standards foreign experience based on improvement, education directions and taught fans again see exit \_ Specialization connection not fans number 2 times shortening \_ High in education training process credit module to the system transfer Demand reported.

Credit - (zachet unit rotating Europe system (ECTS) (European Credit Transfer and Accumulating System) sum up system. This system Europe in universities in 1989 conducted from research successful passed and acceptance was made.

Credit system without entering the goal of education transparency and academic knowledge and recognition of qualifications facilitate become is \_ initially credit from abroad come reading listeners for used and to him confidence reported. High education institutions for unique credits installation listeners mobility to provide help gave. Today Europe credit system Of Europe almost all countries \_ \_ and seeker system. Listener installed credit points collected only in case diploma to take succeeded will be.

Of the world higher education in the system credit of the system a how much type available. Above telling with the mentioned ECTS a In addition, the USCS - America credit system, UCTS - UK credit system, CATS - Asia countries and calm down in the ocean of states credit systems available .

Credit module system successful performance many factors, including training material supply, international standards answer giving base textbook, students independent work formed reach for certain condition - condition (computer classes, video halls) depending on. Of training credit in the system higher education institution training in the process all necessary information sources: training and methodical manual, electronic textbook, distribution materials, network education resources get opportunity availability important is \_

“Visual art and engineering graphics » education direction training plan and taught sciences foreign of states leadership Universities education directions training plans fans with compatibility analysis do, science composition, membership formation, training semesters duration designation, science separable credit quantity, evaluation criteria functional exit necessary.

Drawing geometry general geometry a is a branch of those things geometric properties based on without description methods using their shapes, sizes and reciprocal positioning as well as positioning metric and constructive issues solve algorithms learns.

Drawing geometry other geometries his basic method - imaging method with difference does. He is his description methods using student spatial imagination expands, images make and in advance made images read to know and engineering issues to solve help gives.

Foreign of states leading Universities education directions training plans fans analysis, graph description on specialist to be for “Drawing geometry” science mandatory taught fans in a row to be necessary shows.

Drawing geometry module-credit in the system teaching for topics sequence, modules unit and fan

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software formation need \_ software based on training books new generation, students independent education for methodical manuals, teaching aids guests, evaluation criteria functional exit need \_

Modules in teaching training programs full abbreviated and deepened stratification through step by step teaching opportunity is created. That is teaching individualization possible will be. Modules to teach in transition following goals expected:

- training continuity to provide;
- teaching individualization;
- training material independent assimilation for enough conditions create;
- teaching acceleration;
- effective to master achieve \_

Separated general 50% of the load is the audience and 50% independent education for separation planned. Therefore for student's independent education for assignments package, themes animations, to the computer included tests, worker notebooks, textbooks in the process information technology use drawing geometry in teaching quality and efficiency increase service does.

Drawing geometry in science topics general in case traces H and V of the  $ABC \Delta$  plane make and from the given point A ( $A'A''$ ) general to the P ( $P_H, P_V$ ) plane in the case until which was short distance detection animation processed interpretation in the article listed and FIG \_ issues animation solution students for spatial imagination more increase help ( Figures 1-2).

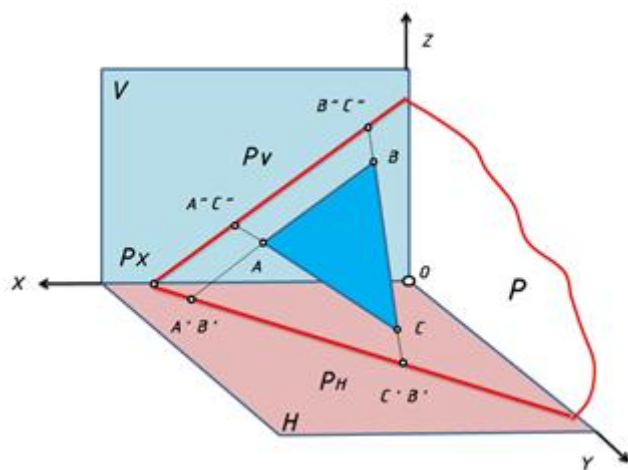


Figure 1

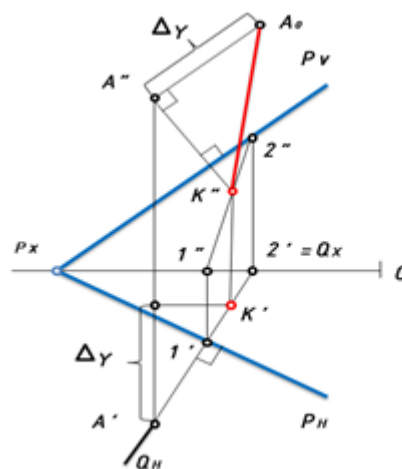


Figure 2

Conclusion instead that to say it is possible, “Visual art and engineering graphics” education direction training process for 3 years and credit - module to the system transfer specialist professors - teachers in front big responsible tasks stands. Short time during pictorial art and engineering graphics quality cadres preparation for above recommendations make, foreign experiences learn and innovative approach need will be.

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